D'PLICATE

SUBMIT IN TRACCATE*
(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY									1-15-008
APPLICATION	I FOR PERMIT	O DRILL, D	DEEPE	N, OR PL	.UG B	ACK	6. IF INDIAN, AL	LOTTEE OR	TRIBE NAME
1a. TYPE OF WORK		DEEDEN! (7	ווומ	C DAC	7	N/A 7. UNIT AGREEM	ENT NAME	
DKI:	LL 🔯	DEEPEN [PLU	G BAC	, L			
OIL [A] GY	S OTHER	N.		NGLE X	MULTIPL ZONE	• 🗖	N/A 8. farm or lea	SE NAME	<u> </u>
2. NAME OF OPERATOR	DEC C. J OTRES			NE LES	20.00		Panguitc	h ''	
Northwest Exp	loration Compar	ıv				- 11-11 11-11-11-11-11-11-11-11-11-11-11-11-1	9. WELL NO.	1 1	
							#1	<i>5.</i>	
	TA Denver, CO						10. FIELD AND P	OOL, OR W	/ILDCAT
4. LOCATION OF WELL (Re	eport location clearly and 87' FNL & 670'			tate requiremen	ts.*)		Wildcat_	<u> </u>	
		TWL (SW NW) .				11. SEC., T., R., I AND SURVEY	OR AREA	·
At proposed prod. zono Sa								OEC DE	-1.2
14. DISTANCE IN MILES A		REST TOWN OR POST	r offici	;•	· .		Sec. 7 T	355 K5)W 3. STATE
6 3 miles Sou	th of Danguitak	. II+-h				.]	Garfield	1	Utah
6.3 miles Sou 15. DISTANCE FROM PROPO LOCATION TO NEAREST	1		16. NO	. OF ACRES IN I	LEASE		F ACRES ASSIGNED		
PROPERTY OR LEASE L (Also to nearest drlg	INE, PT. 6/()'	96	0.53	ŀ	10 11	HIS WELL	160.93	}
18. DISTANCE FROM PROPO	OSED LOCATION*	4.0.1		OPOSED DEPTH		20. ROTAL	RY OR CABLE TOOL	8	
OR APPLIED FOR, ON THE	RILLING, COMPLETED, 26	540'+	12	,550'	- 1		į	Rota	ry
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)		,				22. APPROX. DA	TE WORK	WILL START
7512'GR			10			<u> </u>	April	1.1981	
23.	I	PROPOSED CASIN	G AND	CEMENTING	PROGRAI	M ••			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	ют	SETTING DE	PTH		QUANTITY OF	CEMENT	
20"	16" New	65# H-40 ST	Г&С	500'		Circ C	lass "G" 3	% gel	
12岁"		36/40# N-80	DLT&C	5,000'			"lite"		
8 3/4"	7" New	29/32# N-80 LT&C	CY5	12,500		600 sx	"lite"		
1. Drill 20" h	ole and set 16"		sina	to 500'	with a	ood re	turns.		
2. Drill 12날"!	hole and set 9	5/8" intern	nedia	te casing	to 50	00' an	d cement.	•	
3. Log B.O.P. (checks in daily	drill repo	orts	and drill	8 3/4	" hole	to 12,500	1	
	f warranted and					÷.			·.·
5. Run logs, a	s needed, and p	erforate ar	nd st	imulate a	s need	ed.		·.	
EXHIBITS ATTACH	ED:	1. 34 - 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				, · · · .			
"A"	Location and	Elevation F	Plat				Service .		3
"B"	The Ten-Point	Compliance	Pro	gram					• :
"C"	The Blowout P								:
"D"	The Multi-Poi	•			D.			1	•
"E" & "E ₁ "	Access Road M		ition			- 1 - •			
"F"	Radius Map of			F21212			.11 0	.	
		out, Produc	tion	Facilitie	es and	Cut-F	ill tross-	sectio	n ,
"H" Drill Rig Layout IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive									
zone. If proposal is to opreventer program, if any		illy, give pertinent	data o	n subsurface loc	ations and	i measured	and true vertical	depths.	Give blowout
24.	111 000								
S'/h	Thur Sen	701	Di	vicion Du	:11:n~	rnain	2	-12-81	-
S. Arthur Stewart Division Drilling Engineer DATE 2-12-01									
(This space for Feder	(This space for Federal or State office use)								
PERMIT NO.	· · · · · · · · · · · · · · · · · · ·			APPROVAL DATE				•	
	- Cad A M D	AEEO!!!	FOR		/NN			np 4	7, 1981
APPROVED BY ON	g. Sgd.) A. M. R/	AFFOOL		DISTRICT		R	DATE A	LK 1	* * * * * * * * * * * * * * * * * * *

NOTICE OF APPROVAL
State 04 G

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80 United States Department of the Interior
Geological Survey
Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

, v		
PROJECT IDENTIFICA	TION	
Operator/Project N	ame NORTHWEST EXPLORATION CON	PANY
Project Type		/
	287' FNL, 670' FWL, SW/4 NW/4	Sec 7T355, RSW
	tted 3-12-81	•
FIELD INSPECTION	Date 4-8-8/	•
Field Inspection Participants	GEORGE DIWACHAK	USGS
	BRENT NORTHPUP	BLM
	FLOYD RICHARDS	NORTHWEST
	Lincoln Lyman	Lyman ConsTRUCTION
	BRUCE HOWARD CLARK HOWARD	HOWARD CONST. Co.
	FRED FRAMPIBN	POWERS ELEVATION
review quidelines.	e proposal in accordance with the cat This proposal would not involve any es not represent an exception to the	, significant effect s
4/14/81	George	Dwachah
Date Prepar	ed Environme	ental Scientist

I concur

SI ...

District Supervisor

BCM input received 4/13/81.

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

	Criteria 516 DM 2.3.A		Feder. Corre- spondence (date)	al/State Ap Phone check (date)	ency Meeting (date)	Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
· .	Public health and safety	/	(4/10/81)					2	6	6 (4/8/81)	
2.	c	,						2	6	6	8,9,4
3.	Environmentally controversial				**				6	6	4
4.	Uncertain and unknown risks							2	6	6	4,9
5.	Establishes precedents	1							6	6	4,9
6.	Cumulatively significant							<u>.</u>	6	6	4
7.	\	/									4
8.		1									1.1
9.	Violate Federal, State, local, tribal law						·		6	6	4,8

PLEASE REFER TO ATTAILUTED LEGEND

		_		_											•						
a0	erator <i>NoRTHWEST</i>	[Con	stru	ction	Po1	1ut	i.	o n	Dri Pro					Trans Opera			Acci	dei	nts	Other
٠,٠	EXPLORATION GO	-	1	1	1		T	T	T	 -	Т	T		+		T	T T		_	Γ	
Sec Lea Cou EA	II No. T.355 R. SW ase No. 10-16483 Inty GARFIELD No. CER - 348-81 KEY Enhances No Impact Minor Impact Moderate Impact	Roads, bridges, crossings	S	missic	Others (pump stations, compressor stations, etc.)	trash dispo	struction	ice disposal	xic gas r pollu		ltol	ry Recovery	Mineral processing (ext. facilities)	Outers	Trucks	Pipelines	Others	-	Spills and Leaks	Operational failure	•
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ρι	Recreation	5											=	+		=			#	=	≥
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	Parks, Reserves,	5	-										72	土					1		<u> </u>
	Monuments	5						-		==	\dashv	+	=	#							~ ~
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	Unique Physical Features	5	_								_	+	-	-		-			-		\rightarrow
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ا. ِ ا	Ground Water	1	1	7	/	2			5	2	21.	3	<u> </u>	1		5	- -	7	;+	쿬	
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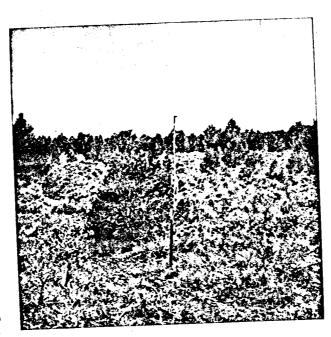
CER Common Reference List

:	
1	SMA INPUT
2.	Reviews Reports, or information received from. Geological Survey (CD, GD, WRD, TD)
	Geological Survey (CD GD WRD, TD)
3.	Lease STIPULATIONS / TERMS
4.	APD
-	
<u>5</u> :	Operator Correspondence
6.	Field Observation (SEE ATTATCHED FIELD NOTES
· -	
7.	Private Rehab Agreement
:	
8.	RECOMMENDED STIPULATIONS
9,	SUMMARY OF ENVIRONMENTAL IMPACT EVALUATION
	at the second of



NORTHWEST
PHNGUICH #/





NORTHWEST PANGUICH #1

个人

RECOMMENDED STIPULATIONS

- 1. ALL STIPULATIONS PROVIDED BY BLM IN CORRESPONDENCE. to USGS DATED APRIL 10, 1981 SHALL BE ADITERED to.
- 2. ACCESS FROM the PANGUICH LAKE ROAD, , ADMINISTERED
 BY GARFIELD COUNTY, SHALL APPROACH FROM THE
 SOUTH. APPANGEMENTS MUST, BE MADE WITH THE
 COUNTY FOR CONSTRUCTION OF THE ALCESS APPROACH
- 3. A CULVERT OF ADEQUATE SIZE to HANDLE NORMAL RUNOFF SHALL BE INSTALLED AT THE ACCESS APPROACH FROM HE PANGUICH LAKE ROAD
- 4. TOPSOIL SHALL BE WINDROWED AROUND THE LOCATION AND AND SEGREGATION AND SPOIL OR EUCESS CUT MATERIALS
- 5. WATER AUTHORIZATION MUST BE OBTAINED FROM THE TOWN OF PANGUICH.



OIL WELL ELEVATIONS AND LOCATIONS CHERRY CREEK PLAZA, SUITE 1201 800 SOUTH CHERRY STREET DENYER, COLORADO 80222 PHONE NO. 303/321-2217

March 24, 1981

State of Utah Division of Oil, Gas, and Minerals 1588 West, North Temple Salt Lake City, Utah 84116

RE: Filing Application for Permit to Drill

Northwest Exploration Company

#1 Panguitch

SW NW Sec. 7 T35S R5W 2287' FNL & 670' FWL Garfield County, Utah

MAR 2 6 1981

APPROVED BY THE DIVISION

OF OIL, GAS, AND MINING

DATE:

BY: ____

OIL GAS & MINING

Gentlemen:

Enclosed are three copies each of the Federal A.P.D. Form 9-331C, the location and elevation plat, the Ten-Point Compliance Program, and the Blowout Preventer Diagram for the above-referenced well location.

Please return the approved copies to:

Mr. Art Stewart Northwest Exploration Company P.O. Box 5800 T.A. Denver, Colorado 80217

Very truly yours.

POWERS ELEVATION

Connie L. Frailey

Manager, Environmental Department

CLF/kle Enclosures

cc: Art Stewart, Northwest Exploration Company, P.O. Box 5800 T.A., Denver, Colorado 80217

Ed Lewis, Powers Elevation, Grand Junction, Colorado Neil Edwards, Powers Elevation, Richfield, Utah

Dirt Contractor

DEPARTMENT OF THE INTERIOR

	DEPARIMEN	I OF THE INTE	KIOK	S. LBAS	A MOITANUISE BE	ND SERIAL NO.	
GEOLOGICAL SURVEY USA-U-16983 (1-15-00)							
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 6. IF INDIAN, ALLOTTES OR TRIBE NAME							
. TIPE OF WORK	53			N/A	AGREEMENT NAME		
	HLL 🔯	DEEPEN	PLUG BA	~		48	
OIL X	NELL OTHER	•	RINGLE X MULTI	PLB N/A	M OR LEASE NAME		
MAME OF OPERATOR	VELL U OTHER	12A	3) 620-3632			•	
Northwest Evi	ploration Compa	ny Attn: Mr.	of Glaunt	Sto . Val	guitch L Mo.		
			 - - 	Je 40 1 #1			
	O TA Denver, C			0. F10	LD AND POOL, OR	WILDCAT	
A + = f		id in accordance with any	State requirements.*)	Wil	dcat		
2287' FNL & 670' FWL (SW NW)							
At proposed prod. an	ame			_			
		AREST TOWN OR POST OFFI	CB*	Sec	7 T35S F	R5W	
6 2 milas Ca	. د د د د د د که مالان	1 411 1		l	field	Utah	
D'3 WILE? 20	uth of Panguito	ch, Utah 16.	NO. OF ACRES IN LEASE	17. NO. OF ACRES	ABBIGNED	Ocan	
PROPERTY OR LEASE (Also to measure dr	LINE, FT. 1g. unit line, if any)	'0' 9	60.53	TO THIS WELL	160.9	93	
			PROPOSED DEPTH	20. ROTARY OR CA			
OR APPLIED FOR, ON T	HIS LEASE, PT.	640'+ 1	2,550' Raibab		Rot	ary	
ELEVATIONS (Show w	bether DF, RT, GR, etc.)			22. A	PPROX. DATE WORK	K WILL START	
7512'GR				IA	pril 1,198	31	
		PROPOSED CASING AN	ID CEMENTING PROGR	AM		•	
SIRE OF HOLE	BIRE OF CABING	WEIGHT PER FOOT	SSTTING DEPTH	QUA	NTITY OF CEMENT		
20"	16" New	65# H-40 ST&C	500'	Circ Class	"G" 3% gel		
12岁"	9 5/8" New	36/40# N-80LT&	d 5,000'	300 sx "lit			
8 3/4"	7" New	29/32# N-80/CY	5 12,500'	600 sx "lit			
D :11 000 1		LT&C		1			
Drill 20"	noie and set 16	" surface casin	g to 500' with	good returns	5.		
Ing R O P	chacks in dail	5/8" intermedi y drill reports	ate casing to 5	OUU, and cem	ent.		
Run tests	if warranted an	d run 7" casing	if productive	4" note to 1	.2,500'.		
Run logs.	as needed, and	perforate and s	timulate as nee	ded.			
HIBITS ATTAC		,	. 44	APPROVED	DV THE	DIVISIO	
HIBILZ WILVE		Elevation Plat					
		t Compliance Pr		OF OIL, GA			
li .	The Blowout	Preventer Diagr	am Min	DATE: 5	-11-81		
11		int Requirement	s for A.P.D.	DV. 111.5	1. Allen	len	
		Maps to Locatio	n	O1. 2221.			
F" Radius Map of Field							
G" & "G ₁ " Drill Pad Layout, Production Facilities and Cut-Fill Cross-Section							
'H" Drill Rig Layout							
in above space preceibe professor profess. If proposal is to deepen or plug back, give data on present productive some and proposed new productive some. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout							
venter program, if a	ny.					·····	
	1010	\sim			0 10 0	11	
BIGNED	rthur Stewart	TITLE D	ivision Drillin	g Enginee r	DATE 2-12-8	51	
(This space for Fed	eral or State office use)						
	マヘ	lala					
PREMIT NO.		<i>U Y</i>	APPROVAL DATE				
APPROVED BY	VAI. IF ANY	TITLE			DATE		
A MANAGEMENT OF METERS							

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Scale ... I" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado has in accordance with a request from BILL & MARIL for NORTHWEST EXPLORATION CO. determined the location of #1 PANGUITCH to be 2287 FNL & 670' FNL Section 7 Township 356. Range SWEST OFTHE SALT CAKE Meridian County, UTHH

I hereby certify that this plat is an accurate representation of a correct survey showing the location of #1 PANGUITCH

Date: 3-5-80

nsed Land Surveyor No

Licensed Land Surveyor No. 4189 State of 111/121

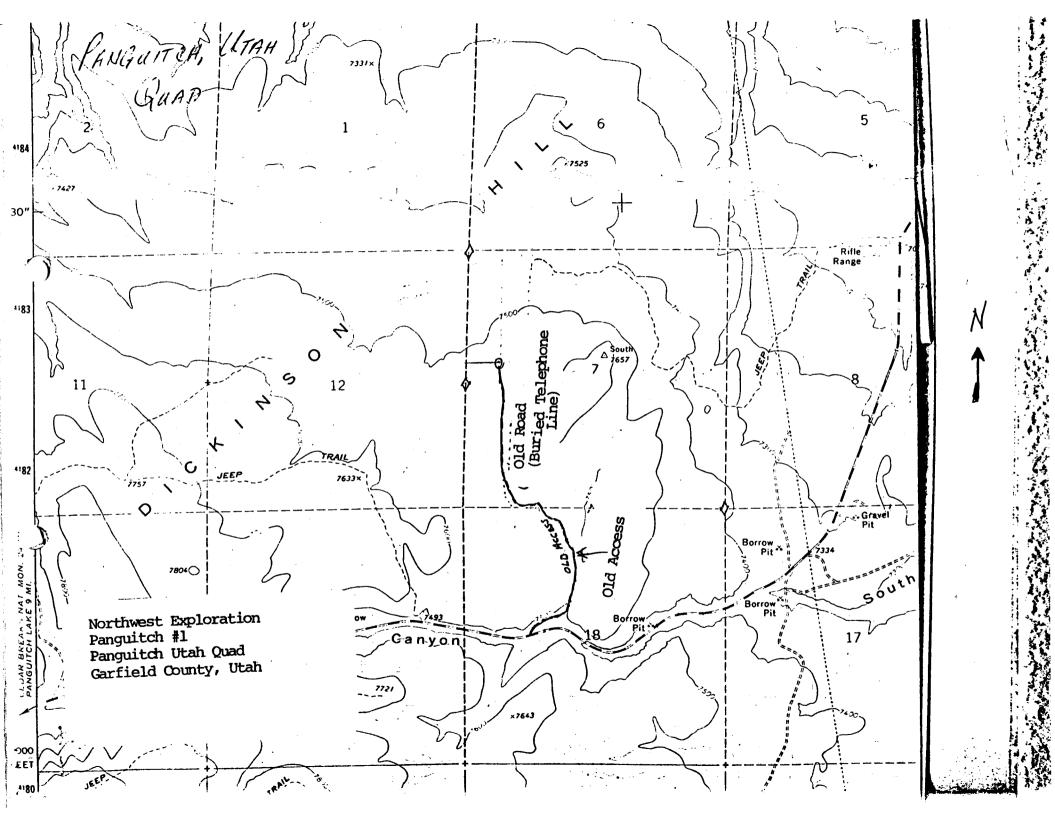


EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C Northwest Exploration Company #1 Panguitch SW NW Sec. 7 T35S R5W 2287' FNL & 670' FWL Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Isom Volcanics.

2. Estimated Tops of Important Geologic Markers

Claron	3950'
	5450'
Kaiparowits	
Tropic Sh.	7150'
Dakota	8650'
Navajo	10.000'
Moenhopi	10,875'
Kaibab	12,145'
Total Depth	12,550'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

	1500'	possible water
Navajo	10,000'	oil/gas
Moenhopi	10,875'	oil/gas
Kaibab	12,145'	oil/gas

4. The Proposed Casing Program

HOLE SIZE	INTERVAL	SECTION LENGTH	SIZE (OD)	WEIGHT, GRADE & JOINT	NEW OR USED
20"	0-500'	500'	16"	65 H-40 ST&C	new
*12¼"	0-5000'	5000'	9 5/8"	36/40 N-80 LT&C	new
8 3/4"	-12,500'	12,500'	7"	29/32 N-80/cy5 LT&0	new

*Expect lost circulation. Will run scavenger tubing to 2500'+ on intermediate string.

Cement Program:

Surface

Circ. Class "G" + 3% gel

Intermediate

300 sx "lite"

Production -

600 sx "lite"

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include an upper and lower kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

<u>DEPTH</u> <u>TYPE</u>	WEIGHT #/gal.	VISCOSITY-sec./qt.	FLUID LOSS cc
0-500' Nondispersed	8.5-8.9	30-40	less than 25
500-12,500' Gel/chem.	8.9-9.5	30-40	less than 25

7. The Auxiliary Equipment to be Used

- (a) An upper and lower kelly cock will be kept in the string.
- (b) A float will be used at the bit.
- (c) A mud logging unit and gas detecting device will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

- (a) A Drill Stem Test is anticipated in the Navajo, Moenhopi and Kaibab formations. Other zones will be tested as needed.
- (b) The logging program will consist of the following:

A DIL, Somic, Density/Neutron, and a Dipmeter from 500-12,500'. Other logs will be determined at well site to best evaluate any shows.

(d) Completion program will be to sand frac. Appropriate Sundry Notice will be submitted.

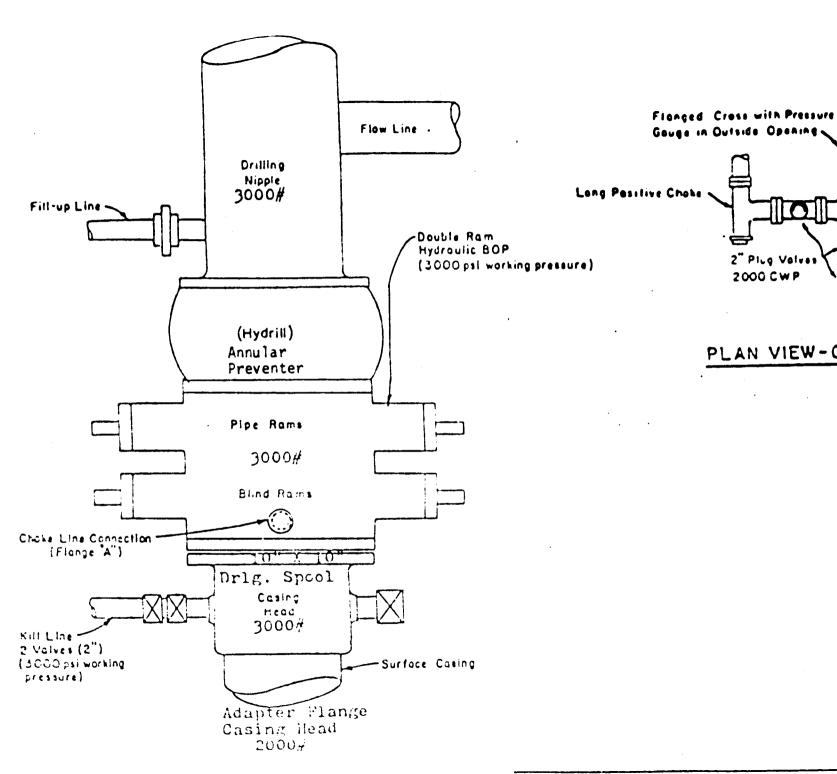
9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for 4-1-81, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 7 months after spudding the well and drilling to casing point.



Gouge in Outside Openin 2" Plug Valve 2000 CWP

PLAN VIEW-CHOKE MANIFOLD

** FILE NOTATIONS **

	11/ach 31, 1981	•
OPERA	TOR: Northwest Explora	tron Co
	NO: Panguitch #1	
Locat	ion: Sec. $\frac{7}{7}$ T. $\frac{355}{8}$ R	. <u>5W</u> County: <u>Barfield</u>
File	Prepared:	Entered on N.I.D:
	•	Completion Sheet:
	API Number	43-017-30106
CHECK	ED BY:	
	Petroleum Engineer: 44.5.1	Luder 5-11-81
•	Director:	
		.0
	Administrative Aide: C-3(c) - Hos to 5' hadre line wally 35	at told want - so close
<u>APPRO</u>	VAL LETTER:	
•	Bond Required:	Survey Plat Required:
	Order No.	O.K. Rule C-3
	Rule C-3(c), Topographic Exception within a 660' radius (- company owns or controls acreage of proposed site
	Lease Designation Seo	Plotted on Map
	Approval Lette Hot Line P.I.	r Written
	Hot Line P.I.	, .



United States Department of the Interior

3100(403)

BUREAU OF LAND MANAGEMENT

Kanab Resource Area 320 North First East Kanab, Utah 84741

April 10, 1981

Mr. Ed Guynn United States Geological Survey 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

Dear Mr. Guynn:

I am enclosing a list of surface management stipulations which we recommend be attached to any approval by your office of Northwest Energy Company's APD for Panguitch Well No. 1 southwest of Panguitch, Utah.

Clearances for archaeology and threatened and endangered species of plants and wildlife are also enclosed.

Sincerely,

For Rex Rowley 上六〜〜、Area Manager

Enclosures



BLM STIPULATIONS FOR NORTHWEST EXPLORATION COMPANY'S PANGUITCH WELL NO. 1

- 1. The maximum width of the access road to be constructed will be 18 feet with the centerline following the flags as closely as possible. Ponderosa pine will be avoided in construction of this road.
- Vegetation and topsoil removed from the drill site will be stockpiled separately.
- 3. Reclamation of the drill site will consist of the following:
 - a. All garbage that can't be burned in the trash cage will be taken to a sanitary land fill. No garbage will be buried on the site.
 - b. Stockpiled vegetation will be buried in the reserve pit.
 - c. The entire site will be restored as nearly as possible to its original condition. All cuts, fills, pits, sumps, and excavations will be graded and contoured to blend with the surrounding terrain.
 - d. All disturbed areas will be scarified prior to replacing the stockpiled topsoil.
 - e. The following seed will be planted between 1/4" 1/2" deep with a rangeland drill or by broadcast seeding followed by a light discing in the spring or fall:

	Pounds P	
<u>Species</u>	Rangeland Drill	Broadcast
Crested Wheatgrass (Agropyron cristatum)	5	9

- 4. Reclamation of the access road will consist of the following:
 - a. The access road will be scarified prior to seeding. In the case of production, the ditches constructed along the access road for drainage will be backfilled.
 - b. Seeding will be undertaken in the same manner as the prescribed for the drill site.
 - c. A few rocks or trees will be placed along the access road to block vehicular traffic.
- 5. Repeated seedings of all disturbed areas will be required until a satisfactory vegetative cover is accomplished.
- 6. All work that is required to rehabilitate the drill site and access road will be completed within six months after completion of drilling operations.

George

				0115	* 41/5	O T mms	11m 4 11	
FROM;	•	DISTRICT	GEOLOGIST,	SALL	TWVF	CILIT,	OIM	

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. USA -4 - 16983 (1-15-608

OPERATOR: NORTHWEST EIPWPATION CO. WELL NO. # 1

LOCATION: SE & SW & NW & sec. 7, T. 355, R. 5W, USM

GARFIELD County, UTAH

1. Stratigraphy: OPERATORS TOPS ARE REASONABLE

ISOM VOLCANICS - SURFACE
CLARON - 3950
KAIPAROWITS - 5450
TROPIC SHALE - 7150

DAKOTA - 8650

NAVAJO - 10,000

NAVAJO - 10,000'
MOENKOPI - 10,875'

KAIBAB - 12,145

TOTAL DEPTH - 12,550

2. Fresh Water: POSSIBLE THROUGH VOLCANICS 0-3950 Ft

3. Leasable Minerals: None

4. Additional Logs Needed: NoNE

5. Potential Geologic Hazards: NONE KNOWN

6. References and Remarks:

Signature: Jame Rechardon Dat

Date: 4-4-81

NORTHWEST EXPLORATION COMPANY

1125 Seventeenth Street, Suite 2100 (303) 620-3500

> Mailing Address P.O. Box 5800, Terminal Annex Denver, Colorado 80217

May 4, 1981

SONOW SAND SON OF SON O

Utah Division of Oil, Gas, and Mining 1588 West, North Temple Salt Lake City, Utah 84116 ATTENTION: Mr. Mike Minder

RE: Northwest Exploration Application To Drill

Panguitch #1 SW NW Sec 7-T35N-R5W Garfield County, Utah Lease: USA U-16983

Dear Mr. Minder:

Northwest Exploration Company requests permission, under provisions in Rule C-3-C-1 and 2, to drill the referenced well within 500 feet of the southern boundary of the lease. This location is necessary due to the topography of the area (see attached copy of topo map).

Northwest Exploration has all acreage within 660' radius under lease.

Your earliest attention to this matter is appreciated as we are faced with a June 30, 1981 lease expiration.

Should you have any questions, please call me at 303-620-3528.

Sincerely,

S. Arthur Stewart

Manager - Drilling Operations

SAS:tmf Attachment

May 19, 1981

Northwest Exploration Company P. O. Box 5800 TA Denver, Colorado 80217

Attention: Mr. Art Stewart

Re: Well No. Panguitch #1

Sec. 7, T. 35S, R. SW, SW NW

Garfield County, Utah

Insofar as this office concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer

Office: 533-5771 Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-017-30106.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder Petroleum Engineer

My the Marchen

MTM/ko cc: USGS



DIVISION OF OIL, GAS AND MINING

NAME OF COMPANY: Northwest Exploration Co.

SPUDDING INFORMATION

WELL NAME: Panguitch #1				
SECTION SW NW 7 TOWNSHIP 35S	RANGE_	5W	COUNTY_	Garfield
DRILLING CONTRACTOR Denton Brot	hers			
RIG #4				
SPUDDED: DATE 6-21-81				
TIME 2:00 p.m.				
How rotary	-			
DRILLING WILL COMMENCE	<u>:</u>			
REPORTED BY Ron Coats				
TELEPHONE # 676-8192				
·				
DATE 6-22-81		SIGNED	D. B.	

NOTICE OF SPUD

C+ Place How

Caller:
Phone:
Well Number: Panquish # 1
Location: <u>SUNW 7-355-5W</u>
County: Yasfeild State: Utah
Lease Number: <u>U- 16983</u>
Lease Expiration Date:
Unit Name (If Applicable):
Date & Time Spudded: 6.81.81 2:00 P.M.
Dry Hole Spudder/Rotary:/
Details of Spud (Hole, Casing, Cement, etc.) 124
Rotary Rig Name & Number: Jenton Beo. ## 4
Approximate Date Rotary Moves In:
FOLLOW WITH SUNDRY NOTICE
Call Received By: Vick
Date: 6/22/81

DIA 13 LA UN 23

DIVISION OF OIL, GAS & MINING

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

•							
NAME OF COMPANY:	Northwest	Explorat	ion Co.				
WELL NAME: Pangu	itch #1		11 Tir in James	·			
SECTION	TOWNSHIP	<u>35S</u>	Range	5W C	OUNTY .	Garfield	<u>i</u>
VERBAL APPROVAL GIV	/EN TO PLUG /	AND ABOVE	REFERRED	TO WELL	IN THE	FOLLOWING	
TOTAL DEPTH: 6752'	(12,5550')						
CASING PROGRAM: 20", 133#, @ 583' 16" @ 500' 9 5/8" @ 5000' 7" @ 12,500'		[ORMATION Som Volca Claron Kaiparowit Tropic Sh. Dakota Lavajo Loenkopi Kiabab	inics :a	3 5 7 8 1 1	urface 950' 450' 150' 650' 0,900' 0,875' 2,145'	
PLUGS SET AS FOLLOW 1) 4790'-4720' 2) 4200'-4000' 3) 2100'-2000' 4) 530'-430' 5) 25'-Surface	ß:	N	lo DST's,	nos cores		•	
DATE 8-14-81			SIGNED	Note Aj	PPROV	red by	State

And the second second



Form Approved. Budget Bureau No. 42–R1424

SHOOT OR ACIDIZE SEPAIR WELL CNOTE: Report results of multiple completion or zone PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES SABANDON* (other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Verbal notice of plugging and abandoning this well was given to the U.S.G.S. on 8/14/81 at 11:30 a.m. This well was plugged, as follows: 4790' - 4720' 100 sks "H" 4200' - 4000' 347 sks "H" 2100' - 2000' 121 sks "H" 2100' - 2000' 121 sks "H" 583' - 20" - 12 jts K-55 133# ST 530' - 430' 226 sks "H" Rig released 8/15/81. Subsurface Safety Valve: Manu. and Type Set @ Ft. 18. I hereby certify that the foregoing is true and correct SIGNED THE Space for Federal or State office use) (This space for Federal or State office use)	UNITED STATES	5. LEASE
SUNDRY NOTICES AND PORTSON WELLS Do not use this form for proposals to provide deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression deaph in plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-33-10 for surpression of plug back to a different service. Lise From 5-35-10 for surpression of plug back to a different se	DEPARTMENT OF THE KYTERIOR	USA U-16983
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1. oil well X well Operator Northwest Exploration Company 3. ADDRESS OF OPERATOR P. O. Box 5800, T.A., Denver, CO 80217 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 2287 FNL & 670' FML AT TOP PROD. INTERVAL: Same AT TOTAL DEPTH: Same AT TOTAL DEPTH: Same 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE. REPORT, OR OTHER DATA REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF ACTUART HOLD TO ACIDIZE REPAIR WELL ULL OR ALTER CASING MULTIPLE COMPLETE OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) 18. OF TEST WATER SHOWN OF THE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) 19. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers a		7. UNIT AGREEMENT NAME
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17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Verbal notice of plugging and abandoning this well was given to the U.S.G.S. on 8/14/81 at 11:30 a.m. This well was plugged, as follows: 4790' - 4720' 100 sks "H" 4200' - 4000' 347 sks "H" 2100' - 2000' 121 sks "H" 583' 20" - 12 jts K-55 133# ST 530' - 430' 226 sks "H" Rig released 8/15/81. Subsurface Safety Valve: Manu. and Type	ABANDON* \(\bar{\textstyle{\textsty}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	
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on 8/14/81 at 11:30 a.m. This well was plugged, as follows: 4790' - 4720' 100 sks "H" 4200' - 4000' 347 sks "H" 2100' - 2000' 121 sks "H" 583' 20" - 12 jts K-55 133# ST 530' - 430' 226 sks "H" Rig released 8/15/81. Subsurface Safety Valve: Manu. and Type	including estimated date of starting any proposed work. If well is d	irectionally drilled, give subsurface locations and
4200' - 4000' 347 sks "H" 2100' - 2000' 121 sks "H" 530' - 430' 226 sks "H" 25' - Surface 56 sks "H" Rig released 8/15/81. Subsurface Safety Valve: Manu. and Type	Verbal notice of plugging and abandoning this on 8/14/81 at 11:30 a.m. This well was plugg	well was given to the U.S.G.S. ed, as follows:
2100' - 2000' 121 sks "H" 583' - 20" - 12 jts K-55 133# S1 530' - 430' 226 sks "H" 25' - Surface 56 sks "H" Rig released 8/15/81. Subsurface Safety Valve: Manu. and Type	4790' - 4720' 100 sks "H"	Casing Program
Subsurface Safety Valve: Manu. and Type	4200' - 4000' 34/ SKS "H"	E001- 201 10 4+6 V EE 1004 CTC
25' - Surface 56 sks "H" Rig released 8/15/81. Subsurface Safety Valve: Manu. and Type		505 · 20 - 12 Jt5 K-55 155# 510
Rig released 8/15/81. Subsurface Safety Valve: Manu. and Type		
Subsurface Safety Valve: Manu. and Type	25 - Surrace 50 SKS n	
SIGNED Sally 1. August 24, 1981 Chis space for Federal or State office use)	Rig released 8/15/81.	
SIGNED Sally 1. August 24, 1981 Chis space for Federal or State office use)		- · ·
SIGNED Sally 1. OuVall Regulatory Compliance (This space for Federal or State office use)	Subsurface Safety Valve: Manu. and Type	Set @ Ft.
(This space for Federal or State office use)		
(This space for Federal or State office use)	SIGNED X /4/1/2 TITLESPECIALIST.	DATE August 24, 1981
APPROVED BY TITLE DATE	. //	
CONDITIONS OF APPROVAL, IF ANY:		DATE

UN D STATES SUBMIT IN DUPLIC

Form approved. Budget Bureau No. 42-R355.5

	DE				F TH		TERIO	R		ions on se side)	5. LEASE DE	BIGNATI	ON AND SERIAL NO.
			JEOL.	<u> </u>	AL 30	RVEI		·			USA U-		TEE OR TRIBE NAME
WELL CO	MPLET	NOI	OR I	RECO	MPLET	ION I	REPORT	AN	D LOC	3 *	U. IF INDIAN	AULUI	THE UR INIBE NAME
1a. TYPE OF WEL	L:	OII. WEL		GAS WELL	X D	RY 🗌	Other				7. UNIT AGRI	EMENT	NAME
b. TYPE OF COM								•					1 -
WELL X	OVER	DEE	P-	BACK .	DIFF	vr.	Other				S. FARM OR	LEASE	NAME
2. NAME OF OPERAT						*.					Pangui	tch	
Northwest		orati	ion Co	ompany	7						9. WELL NO.		
		TT A	·D		'alamad	1. 002	17				#1 10. FIELD AN	n POOT.	OR WILDCAT
P.O. BOX 4. LOCATION OF WEL	L (Repor	t locatio	n clearly	and in	accordance	with an	y State requi	remen	te) *		Wildca		, 02
	287' F						,				11. SEC., T.,		R BLOCK AND SURVEY
At top prod. into	erval rep	orted bel	low Sar	ne :	511	/ NW	<u></u>				OR AREA		•
	_		-		= -						Sec 7	T35	S R5W
At total depth	Same			-	I 14 PP	RMIT NO.		DATE	ISSUED		12. COUNTY O	18	13. STATE
					. 1		7-30106		17-81		PARISH		
15. DATE SPUDDED	16. DAT	E T.D. RI	EACHED	17. DAT	E COMPL.		1			r. RKR. 1	Garfield		Utah
6-22-81	8-12	2-81		N/A	Plug 8	& Abar			GR	.,, .	,,,		
20. TOTAL DEPTH, MD				.D., MD &	TVD 22	IF MILL	TIPLE COMPL	.,	23. INTE	RVALS LED BY	ROTARY TOO	LS	CABLE TOOLS
6752'		N/A				N/A			- DATE	→	A11		
24. PRODUCING INTER	VAL(S), C	F THIS	COMPLET	ION-TOP	, BOTTOM,	NAME ()	D AND TVD)	•				25.	WAS DIRECTIONAL SURVEY MADE
N/A - Dr	y hole	e.				-1	•					İ	No
26. TYPE ELECTRIC A	ND OTHE	R LOGS R	RUN					•				27. WA	AS WELL CORED
FDC/CNL,				Colir	per H	on ni-	matan					Yes	
28.	DID,	30111	C JC GK				ort all string	s set is	n soell)			103	
CASING SIZE	WEIG	RT, LB./I	FT. I	EPTH SE	T (MD)	но	LE SIZE		СЕМ	ENTING	RECORD		AMOUNT PULLED
20''	K-55	133#	#	583	3 !	26"		665	sx BJ	C1 !	'G'' + 2%	A-2	None
13-3/8"		used									oflake.		
9-5/8''		used									x C1 "G"	-	
5-1/2'' 29.	Not	used	TINED I	RECORD		<u> </u>		12%	A-7 +		sk Cello		<u>e</u>
SIZE	TOP (M		BOTTOM		SACKS CE	MENT*	SCREEN (M	n)	SIZE		DEPTH SET (M		PACKER SET (MD)
N/A	N/A			/A	N/A	·	N/A	-	N/A	-	N/A	-	N/A
					TVA				N/A_		IV/ PL		N/A
31. PERFORATION REC	ORD (Inte	erval, in		الطاو	U		82.	AC	ID, SHOT,	FRACT	URE, CEMENT	SQUE	EZE, ETC.
N/A		4		_			DEPTH IN	TERVAI	L (MD)	AM	OUNT AND KIN	OF M	ATERIAL USED
		F	0-	710	1001		N/A			N/A	\		
				U	1301								
			Du								······		
33.*		<u> </u>		VISION	OF	PROI	UCTION						
DATE FIRST PRODUCTI	ION	PRODU	CTION M	HEARD (AMMAG	as lift, pr	imping—size	and to	ype of pum	p)			(Producing or
N/A			N/A			-					Plug		& Abandoned
DATE OF TEST	HOURS	TESTED	CHO	KE SIZE	PROD'N	. FOR PERIOD	OIL-BBL.		GAS-MC	F.	WATER-BBL	. (GAS-OIL RATIO
N/A		I/A	<u> </u>	N/A	<u> </u>		N/A		N/		N/A		N/A
FLOW. TUBING PRESS.		PRESSUR		CULATED IOUR RAT			GAS-		1	WATER-	. 1		AVITY-API (CORR.)
N/A 34. DISPOSITION OF G.		A used for	fuel, ven	ted, etc.)	N/	A		N/A	L	N/	A TEST WITNES		N/A
N/A	·	•									N/A	-	
35. LIST OF ATTACHM	HENTS									<u> </u>	11/A		
Logs have 36. I hereby certify	e been	forw	vardec	l unde	er sepa	rate	cover by	y Sc	hlumbe	rger	Company.		
36. I hereby certify	that the	foregoin	g and at	tached in	nformation	is comp	lete and corr	ect as	determine	d from	all available re	cords	
SIGNED ~	Jace	1	· Deil	Vaes	/ / mm	rræSpe	cialist	. Re	gulato	rv Co	mpliance		9/6/81

INSTRUCTIONS

or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, to it is completed in ame(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

	٠.	TRUE VERT. DEPTH	N/A			<u>-</u> "								
38. GEOLOGIC MARKERS	TOP	MEAS. DEPTH	1940	3560	4200	4800	4890	5225		7.				
	NAME		e Kaiparowtis	Tropic	Dakota	Entrada	Carmel	Miocene Diorite						
37. SUMMARY OF POROUS ZONES: SIOW ALL IMPORTANT ZONES OF POROSITI AND CONTENTS THERROF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, PLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.	Corod 53 min/ft (11+ 10) Lithology.		igneous rock with accessory minerals of	was moderately fractured, fractures filled	with silica cement. Overall texture		No drill stem tests were run.				•		
	BOTTOM	62101	0770											
	· TOP	10063	0070								 		 	
37. SUMMARY OF POR- SHOW ALL IMPOR DEPTH INTERVAL	FORMATION	2	igneous - intrusive	(Core)				Drill Stem	Tests					

Julling

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number_	Panguitch #1			
Operator Northwest	Exploration Co.	Address P.O	. 5800, T.A., De	nver, CO 80217
Contractor Denton E	Brothers Drilling	Address P.O	. 2304, Casper,	WY 82602
Location SW 1/4 NE	4 Sec. 7	T. 35N R.	5W Count	y_Garfield
Water Sands		•		
<u>Depth</u>	<u>. Vo</u>	lume	<u>.</u> <u>Q</u> ı	uality
From To	. Flow Ra	te or Head	Fresh	or Salty
1. No water f	lows.			
2				
3				
4				
5	(Continue of re	verse side if r	necessary)	
Formation Tops	Kaiparowtis Tropic	3560'	Carmel Miocene Diorite	4890' 5225'
Remarks	Dakota Entrada	4200' 4800'		

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
 - (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.